

Worksheet 5. Application Summary 03-0036

This worksheet will be posted on the web to notify the public of requests for critical use exemptions beyond the 2005 phase out for methyl bromide. Therefore, this worksheet cannot be claimed as CBI.

1. **Consortium Name:** California Walnut Commission
2. **Location:** California
3. **Crop:** Walnuts
- Pounds of Methyl**
4. **Bromide Requested** 2005 215,400 lbs.
- Volume Treated with**
5. **Methyl Bromide** 2005 31,060 (1,000 cu ft)
6. **If methyl bromide is requested for additional years, reason for request:**
No alternative available

<u>2006</u>	<u>192,600</u>	<u>lbs.</u>	Volume Treated	<u>31,060</u>	<u>(1,000 cu ft)</u>
<u>2007</u>	<u>238,200</u>	<u>lbs.</u>	Volume Treated	<u>31,060</u>	<u>(1,000 cu ft)</u>

Place an "X" in the column(s) labeled "Not Technically Feasible" and/or "Not Economically Feasible" where appropriate. Use the "Reasons" column to describe why the potential alternative is not feasible.

Potential Alternatives	Not Technically Feasible	Not Economically Feasible	Reasons
Carbon dioxide	X	X	High capital costs to install chambers, cannot treat large volumes in short time.
Phosphine alone or in combination	X		Effective treatment requires days, cannot treat product in the available time to meet market.
Controlled and modified atmospheres	X	X	Effective treatment requires days, cannot treat product in the available time to meet market.
Proxylene oxide	X	X	Requires astronomical investment to build vacuum chambers; high temperature required may result in rancidity.
Biological agents	X		IMMGV only good against Indian meal moth, will not disinfest product of field pests. Cannot add parasitoids to bulk stored walnuts.
Cold treatments	X	X	Effective treatment requires days to weeks, cannot treat product in the available time. High costs due to plant retrofitting and energy use.
Cultural practices (IPM/ICM)	X	X	Combination treatments take days to disinfest bulk commodity of field pests. Other cultural methods do not disinfest bulk commodity.
Heat treatments	X	X	Current treatments reduce walnut quality. Cannot treat product in the available time. High costs due to plant retrofitting and energy use.
Radation	X	X	Capital costs very high, may have live insects after treatment. May not be accepted in all markets.
Contact insecticides	X		Poor penetration of bulk commodity does not allow product disinfestation.